

**NOMENCLATURAL STATUS OF UNRANKED NAMES  
PUBLISHED BY TRELEASE (1911) IN *BEAUCARNEA*, *DASYLLIRION*, AND *NOLINA*  
(ASPARGACEAE-NOLINOIDEAE)**

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**ABSTRACT**

The nomenclatural status of eight infrageneric and five infraspecific names published by Trelease (1911) in *Beaucarnea* Lem., *Dasyllirion* Zucc., and *Nolina* Michx. (Asparagaceae-Nolinoideae) is evaluated. Nearly all later authors treated these names as if they were published at sectional or varietal rank, but they were in fact published without rank assignment. For all names except one, new combinations at sectional or varietal rank were subsequently published by Trelease himself or later authors; these combinations are listed. Typifications for infrageneric names are provided. For one infrageneric name without combination at sectional rank, the new combination *Beaucarnea* sect. *Papillatae* (Trel.) Thiede is proposed.

**KEY WORDS:** Asparagaceae, *Beaucarnea*, *Dasyllirion*, infrageneric classification, new combination, *Nolina*, Nolinaceae, nomenclature, unranked names.

In his treatment of “The desert group Nolineae“, Trelease (1911) published new infrageneric names in *Beaucarnea* Lem., *Dasyllirion* Zucc., and *Nolina* Michx. as well as new infraspecific names in *Dasyllirion* and *Nolina*. Trelease gave a short characterization for all names but did not apply any formal rank to them, so that all names are unranked: e.g., *Beaucarnea* [unranked] *Papillatae* Trel. or *Nolina palmeri* [unranked] *brandegeei* Trel. With the sole exception of Ullrich (1992), virtually all other authors (e.g., Krause 1930; Bogler 1998; Walker 2001; Hess 2002; Hochstätter 2010, 2011; IPNI 2012; Govaerts & al. 2012) wrongly treated Trelease’s names as being published at sectional or varietal rank as, e.g., *Beaucarnea* sect. *Papillatae* Trel. or *Nolina palmeri* var. *brandegeei* Trel.

Three of Trelease’s infrageneric names are invalid according to the autonym rule (see below), whereas all other infrageneric and all infraspecific names are valid but inoperative in questions of priority (Art. 35.3 ICBN, McNeill & al. 2006). Trelease himself and later authors (see below) published new combinations at sectional or varietal rank for all names except one, for which a new combination is proposed here.

In the following, the nomenclatural status of all unranked infrageneric and infraspecific names published by Trelease (1911) in *Beaucarnea*, *Dasyllirion*, and *Nolina* is evaluated, the new combinations based on these names are enumerated, and typifications for all infrageneric names are provided.

**BEAUCARNEA** Lem., Ill. Hort. 8: Misc. 59. 1861). **TYPE:** *Beaucarnea recurvata* Lem.

Trelease (1911) classified the genus into *Beaucarnea* [unranked] *Eubeaucarnea* Trel. (*nom. inval.*) and *Beaucarnea* [unranked] *Papillatae* Trel. For the latter, no combination at infrageneric level was found, so that a new combination at sectional rank is proposed here following ICBN Art. 35.3 & Ex. 4 (McNeill & al. 2006).

**Beaucarnea** sect. **Beaucarnea**. TYPE: *Beaucarnea recurvata* Lem. (= type of *Beaucarnea*). ≡ *Beaucarnea* [unranked] *Eubeaucarnea* Trel., Proc. Amer. Phil. Soc. 50: 427. 1911 (*nom. inval.*, ICBN Arts. 21.3, 22.1 & 22.2; McNeill & al., 2006). TYPE: [not indicated].

Further species: *B. goldmanii* Rose, *B. guatemalensis* Rose, *B. pliabilis* (Baker) Rose, *B. sanctomariana* L. Hern.

**Beaucarnea** sect. **Papillatae** (Trel.) Thiede, **comb. nov.** LECTOTYPE (selected here): *Beaucarnea stricta* Lem. ≡ *Beaucarnea* [unranked] *Papillatae* Trel., Proc. Amer. Phil. Soc. 50: 429. 1911. TYPE: [not indicated].

Further species: *B. compacta* L. Hern. & Zamudio, *B. gracilis* Lem., *B. hiriartiae* L. Hern.

Hernández-Sandoval (1993, cited in Bogler 1998) suggested that these two sections may not be clearly distinguished.

**DASYLIRION** Zucc., Allg. Gartenzeitung (Otto & Dietrich) 6: 258. 1838. TYPE: *Dasyilirion graminifolium* (Zucc.) Zucc.

Trelease (1911) classified the genus into *Dasyilirion* [unranked] *Eudasyilirion* Trel. (*nom. inval.*) and *Dasyilirion* [unranked] *Quadrangulatae* Trel. In his treatment of the Liliaceae, Krause (1930) cited “*Dasyilirion* Sekt. II *Quadrangulatae* Trelease” with full reference including page number from Trelease (1911) which is treated here as valid, albeit unintended, new combination. In his synopsis of *Dasyilirion*, Hochstätter (2011) published an additional sect. *Glaucophyllum*, which accommodates some of the species previously placed in sect. *Dasyilirion*.

**Dasyilirion** sect. **Dasyilirion**. TYPE: *Dasyilirion graminifolium* (Zucc.) Zucc. (= type of *Dasyilirion*). ≡ *Dasyilirion* [unranked] *Eudasyilirion* Trel., Proc. Amer. Phil. Soc. 50: 431. 1911 (*nom. inval.*, ICBN Arts. 21.3, 22.1 & 22.2; McNeill & al. 2006). TYPE: [not indicated].

Further species: *D. acrotrichum* (Schiede) Zucc., *D. gentryi* Bogler, *D. leiophyllum* Engelm. ex Trel., *D. lucidum* Rose, *D. parryanum* Trel., *D. serratifolium* (Karw. ex Schult. & Schult. f.) Zucc., *D. simplex* Trel., *D. texanum* Scheele.

**Dasyilirion** sect. **Quadrangulatae** (Trel.) K. Krause in H.G.A. Engler, Nat. Pflanzenfam. ed. 2, 15a: 356. 1930 [repeated by Ullrich in Kakt. and. Sukk. 43(8): centre page pull-out 1992/25. 1992]. ≡ *Dasyilirion* [unranked] *Quadrangulatae* Trel., Proc. Amer. Phil. Soc. 50: 440. 1911. TYPE: *Dasyilirion longissimum* Lem. (typification by inference; only species included).

Further species: *D. miquihuanense* Bogler, *D. quadrangulatum* S. Watson, *D. treleasei* (Bogler) Hochstätter.

**Dasyilirion** sect. **Glaucophyllum** Hochstätter, Piante Grasse 31(1): 28. 2011. TYPE: *Dasyilirion glaucophyllum* Hook.

Further species: *D. berlandieri* S. Watson, *D. cedrosanum* Trel., *D. durangense* Trel., *D. longistylum* J.F. Macbr., *D. occidentalis* Bogler ex Hochstätter, *D. palaciosii* Rzed., *D. sereke* Bogler, *D. wheeleri* S. Watson ex Rothr.

**NOLINA** Michx., Fl. Bor.-Amer. 1: 207. 1803. **TYPE:** *Nolina georgiana* Michx.

Trelease (1911) classified the genus into *Nolina* [unranked] *Graminifoliae* Trel. (*nom. inval.*), *N.* [unranked] *Erumpentes* Trel., *N.* [unranked] *Microcarpae* Trel. and *N.* [unranked] *Arborescentes* Trel.

In a synopsis of *Nolina*, Hochstätter (2010) cited these names as being published at sectional rank. Since Hochstätter also cited the full reference including page number from Trelease (1911), Hochstätter's sectional names are treated here as valid, albeit unintended, new combinations.

**Nolina** sect. **Nolina**. **TYPE:** *Nolina georgiana* Michx. (= type of *Nolina*). ≡ *Nolina* [unranked] *Graminifoliae* Trel., Proc. Amer. Phil. Soc. 50: 413. 1911 (*nom. inval.*, ICBN Art. 22.1; McNeill & al. 2006). **TYPE:** [not indicated].

Further species: *N. atopocarpa* Bartlett, *N. brittoniana* Nash, *N. humilis* S. Watson, *N. lindheimeriana* (Scheele) S. Watson, *N. pumila* Rose.

**Nolina** sect. **Erumpentes** (Trel.) Hochstätter, Piante Grasse 30(Suppl.): 14. 2010. **TYPE:** *Nolina erumpens* (Torr.) S. Watson. ≡ *Nolina* [unranked] *Erumpentes* Trel., Proc. Amer. Phil. Soc. 50: 416. 1911. **TYPE:** [not indicated].

Further species: *N. arenicola* Correll, *N. cespitifera* Trel., *N. greenii* S. Watson ex Wootton & Standl., *N. micrantha* I.M. Johnst., *N. texana* S. Watson.

**Nolina** sect. **Microcarpae** (Trel.) Hochstätter, Piante Grasse 30(Suppl.): 23. 2010. **TYPE:** *Nolina microcarpa* S. Watson. ≡ *Nolina* [unranked] *Microcarpae* Trel., Proc. Amer. Phil. Soc. 50: 420. 1911. **TYPE:** [not indicated].

Further species: *N. durangensis* Trel., *N. elegans* Rose, *N. palmeri* S. Watson, *N. rigida* Trel.

Hochstätter (2010: 2) considered *Nolina rigida* as an unclear species.

**Nolina** sect. **Arborescentes** (Trel.) Hochstätter, Piante Grasse 30(Suppl.): 29. 2010. **LECTOTYPE** (selected here): *N. longifolia* (Karw. ex Schult. & Schult. f.) Hemsl. ≡ *Nolina* [unranked] *Arborescentes* Trel., Proc. Amer. Phil. Soc. 50: 422. 1911. **TYPE:** [not indicated].

Further species: *N. azureogradiata* D. Donati, *N. beldingii* Brandege, *N. bigelovii* (Torr.) S. Watson, *N. cismontana* Dice, *N. hibernica* Hochstätter & D. Donati, *N. interrata* Gentry, *N. juncea* (Zucc.) J.F. Macbr., *N. matapensis* Wiggins, *N. nelsonii* Rose, *N. parryi* S. Watson; *N. parviflora* (Kunth) Hemsl.

Hochstätter (2010: 2) considered *Nolina juncea* as an unclear species.

#### UNRANKED INFRASPECIFIC NAMES

Trelease (1911) published 2 unranked infraspecific names in *Dasyilirion* and 3 in *Nolina*. In an excerpt published the following year (Trelease 1912), Trelease assigned varietal rank to these names which are treated here as valid new combinations.

***Dasyilirion texanum*** var. ***aberrans*** (Trel.) Trel., Feddes Repert. 11: 52. 1912. ≡ *D. texanum* [unranked] *aberrans* Trel., Proc. Amer. Philos. Soc. 50: 434. 1911. Accepted name: *D. texanum* Scheele (Hochstätter 2011, Govaerts & al. 2012).

*Dasyllirion wheeleri* var. *wislizenii* (Trel.) Trel., Feddes Repert. 11: 53. 1912. ≡ *D. wheeleri* [unranked] *wislizenii* Trel., Proc. Amer. Philos. Soc. 50: 439. 1911. Accepted name: *D. wheeleri* S. Watson ex Rothr. (Walker 2001, Hochstätter 2011, Govaerts & al. 2012).

*Nolina palmeri* var. *brandegeei* (Trel.) Trel., Feddes Repert. 11: 50. 1912. ≡ *N. palmeri* [unranked] *brandegeei* Trel., Proc. Amer. Philos. Soc. 50: 420. 1911. Accepted name: *N. palmeri* S. Watson (Hochstätter 2010, Govaerts & al. 2012).

*Nolina beldingii* var. *deserticola* (Trel.) Trel., Feddes Repert. 11: 50. 1912. ≡ *N. beldingii* [unranked] *deserticola* Trel., Proc. Amer. Philos. Soc. 50: 424. 1911. Accepted name: *N. beldingii* Brandegee (Hochstätter 2010, Govaerts & al. 2012).

*Nolina texana* var. *compacta* (Trel.) I.M. Johnst., J. Arnold Arbor. 24: 90. 1943. ≡ *N. erumpens* var. *compacta* (Trel.) Trel., Feddes Repert. 11: 49. 1912. ≡ *N. erumpens* [unranked] *compacta* Trel., Proc. Amer. Philos. Soc. 50: 418. 1911. Accepted name: *N. texana* S. Watson (Hess 2002, Hochstätter 2010, Govaerts & al. 2012).

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